<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: <u>10/533,593</u>
Source: <u>1FWP</u>
Date Processed by STIC: <u>7/31/06</u>

ENTERED

IFWP

RAW SEQUENCE LISTING　　　　　　　　DATE: 07/31/2006
PATENT APPLICATION:　**US/10/533,593**　　TIME: 14:10:25

Input Set : **A:\-135-1.APP**
Output Set: **N:\CRF4\07312006\J533593.raw**

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 3 <110> APPLICANT: Johnson, Jeffrey D.
 4        Palma, John F.
 5        Schweitzer, Anthony C.
 6        Blume, John E.
 7        Metabolex, Inc.
 9 <120> TITLE OF INVENTION: A Pancreatic Islet Transcription Factor and Uses
10        Thereof
12 <130> FILE REFERENCE: 016325-013510US
14 <140> CURRENT APPLICATION NUMBER: US 10/533,593
15 <141> CURRENT FILING DATE: 2005-05-02
17 <150> PRIOR APPLICATION NUMBER: US 60/425,968
18 <151> PRIOR FILING DATE: 2002-11-13
20 <150> PRIOR APPLICATION NUMBER: WO PCT/US03/36131
21 <151> PRIOR FILING DATE: 2003-11-13
23 <160> NUMBER OF SEQ ID NOS: 42
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 3048
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
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33 <223> OTHER INFORMATION: human IC-RFX islet transcription factor cDNA
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48 tatcattact atgggattgg catcaaagag agcagtgcat attaccactc cgtttattct 780
49 ggaaagggct tgacaaggtt ttctggaagc aagctaaaga tgagggtgg cttcactcgt 840
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55 ctcattcctg caacaatgca agaaatgcct gaaagcttat tagcagacat aagaaatttt 1200
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84 gtgtcctctt taccacctat caacactgtg ttcatgggaa cagcagctgg aggcacttaa 2940
85 accaccaatg tgggagggggg tgctaaaact ttaaaaaaaa tctctactgt gcaaatatca 3000
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102             20                  25                  30
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105         35                  40                  45
107 Ala Glu Gly Gln Pro Gly Gly Glu Gln Gly Gly Gly Glu Lys Gly Glu
108         50                  55                  60
110 Asp Pro Glu Leu Pro Gly Ala Val Lys Ser Glu Met His Leu Asn Asn
111 65                  70                  75                  80
113 Gly Asn Phe Ser Ser Glu Glu Glu Asp Ala Asp Asn His Asp Ser Lys
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Input Set : A:\-135-1.APP
Output Set: N:\CRF4\07312006\J533593.raw

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117                   100                 105                 110
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120         115                 120                 125
122 Glu Glu Asn Tyr Ile Val Cys Glu Gly Val Cys Leu Pro Arg Cys Ile
123     130                 135                 140
125 Leu Tyr Ala His Tyr Leu Asp Phe Cys Arg Lys Glu Lys Leu Glu Pro
126 145                 150                 155                 160
128 Ala Cys Ala Ala Thr Phe Gly Lys Thr Ile Arg Gln Lys Phe Pro Leu
129             165                 170                 175
131 Leu Thr Thr Arg Arg Leu Gly Thr Arg Gly His Ser Lys Tyr His Tyr
132             180                 185                 190
134 Tyr Gly Ile Gly Ile Lys Glu Ser Ser Ala Tyr Tyr His Ser Val Tyr
135         195                 200                 205
137 Ser Gly Lys Gly Leu Thr Arg Phe Ser Gly Ser Lys Leu Lys Asn Glu
138     210                 215                 220
140 Gly Gly Phe Thr Arg Lys Tyr Ser Leu Ser Ser Lys Thr Gly Thr Leu
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143 Leu Pro Glu Phe Pro Ser Ala Gln His Leu Val Tyr Gln Gly Cys Ile
144             245                 250                 255
146 Ser Lys Asp Lys Val Asp Thr Leu Ile Met Met Tyr Lys Thr His Cys
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149 Gln Cys Ile Leu Asp Asn Ala Ile Asn Gly Asn Phe Glu Glu Ile Gln
150     275                 280                 285
152 His Phe Leu Leu His Phe Trp Gln Gly Met Pro Asp His Leu Leu Pro
153     290                 295                 300
155 Leu Leu Glu Asn Pro Val Ile Ile Asp Ile Phe Cys Val Cys Asp Ser
156 305                 310                 315                 320
158 Ile Leu Tyr Lys Val Leu Thr Asp Val Leu Ile Pro Ala Thr Met Gln
159             325                 330                 335
161 Glu Met Pro Glu Ser Leu Leu Ala Asp Ile Arg Asn Phe Ala Lys Asn
162         340                 345                 350
164 Trp Glu Gln Trp Val Val Ser Ser Leu Glu Asn Leu Pro Glu Ala Leu
165     355                 360                 365
167 Thr Asp Lys Lys Ile Pro Ile Val Arg Arg Phe Val Ser Ser Leu Lys
168     370                 375                 380
170 Arg Gln Thr Ser Phe Leu His Leu Ala Gln Ile Ala Arg Pro Ala Leu
171 385                 390                 395                 400
173 Phe Asp Gln His Val Val Asn Ser Met Val Ser Asp Ile Glu Arg Val
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176 Asp Leu Asn Ser Ile Gly Ser Gln Ala Leu Leu Thr Ile Ser Gly Ser
177         420                 425                 430
179 Thr Asp Thr Glu Ser Gly Ile Tyr Thr Glu His Asp Ser Ile Thr Val
180     435                 440                 445
182 Phe Gln Glu Leu Lys Asp Leu Leu Lys Lys Asn Ala Thr Val Glu Ala
183     450                 455                 460
185 Phe Ile Glu Trp Leu Asp Thr Val Val Glu Gln Arg Val Ile Lys Thr
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191 Leu Lys Trp Ser Phe Phe Gly Ala Arg Val Met His Asn Leu Thr Leu
192             500             505             510
194 Asn Asn Ala Ser Ser Phe Gly Ser Phe His Leu Ile Arg Met Leu Leu
195         515             520             525
197 Asp Glu Tyr Ile Leu Leu Ala Met Glu Thr Gln Phe Asn Asn Asp Lys
198     530             535             540
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201 545             550             555             560
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207         580             585             590
209 Ser His Val Glu Thr Thr Tyr Leu Pro Leu Pro Ser Ser Gln Pro Gly
210         595             600             605
212 Gly Leu Gly Pro Ala Leu His Gln Phe Pro Ala Gly Asn Thr Asp Asn
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216 625             630             635             640
218 Met Thr Pro Pro Ile Ser Pro Ala Met Ala Ser Arg Gly Ser Val Ile
219             645             650             655
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224 Ser Ala Pro Ser His Cys Ser Thr Tyr Pro Glu Pro Ile Tyr Pro Thr
225         675             680             685
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228     690             695             700
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231 705             710             715             720
233 His Thr Glu His Gly Arg Cys Met Ala Trp Thr Glu Gln Gln Leu Ser
234             725             730             735
236 Arg Asp Phe Phe Ser Gly Ser Cys Ala Gly Ser Pro Tyr Asn Ser Arg
237             740             745             750
239 Pro Pro Ser Ser Tyr Gly Pro Ser Leu Gln Ala Gln Asp Ser His Asn
240         755             760             765
242 Met Gln Phe Leu Asn Thr Gly Ser Phe Asn Phe Leu Ser Asn Thr Gly
243     770             775             780
245 Ala Ala Ser Cys Gln Gly Ala Thr Leu Pro Pro Asn Ser Pro Asn Gly
246 785             790             795             800
248 Tyr Tyr Gly Ser Asn Ile Asn Tyr Pro Glu Ser His Arg Leu Gly Ser
249             805             810             815
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252         820             825             830
254 Pro Tyr Ser Asp Ile His Asp Pro Leu Asn Ile Leu Asp Asp Ser Gly
255         835             840             845
257 Arg Lys Gln Thr Ser Ser Phe Tyr Thr Asp Thr Ser Ser Pro Val Ala
258     850             855             860
260 Cys Arg Thr Pro Val Leu Ala Ser Ser Leu Gln Thr Pro Ile Pro Ser
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Input Set : A:\-135-1.APP
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263 Ser Ser Ser Gln Cys Met Tyr Gly Thr Ser Asn Gln Tyr Pro Ala Gln
264               885                890                895
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267               900                905                910
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270         915                920                925
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274 <211> LENGTH: 928
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence:exemplary
280       IC-RFX consensus sequence
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284 <222> LOCATION: (1)..(928)
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287 <400> SEQUENCE: 3
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     292           20                25                30
     294 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     295         35                40                45
     297 Xaa Xaa Xaa Xaa Pro Gly Xaa Xaa Xaa Gly Gly Xaa Xaa Xaa Xaa Xaa
     298       50                55                60
     300 Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Xaa Xaa Leu Asn Xaa
     301 65                70                75                80
     303 Gly Xaa Xaa Xaa Ser Glu Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Ser Xaa
     304               85                90                95
     306 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa
     307             100                105                110
     309 Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Thr Xaa Xaa Thr Leu Gln Trp Leu
     310         115                120                125
     312 Glu Glu Asn Tyr Xaa Xaa Xaa Glu Gly Val Cys Leu Pro Arg Cys Xaa
     313       130                135                140
     315 Leu Tyr Xaa His Tyr Leu Asp Phe Cys Xaa Lys Xaa Xaa Xaa Xaa Pro
     316 145                150                155                160
     318 Xaa Xaa Ala Ala Xaa Phe Gly Lys Xaa Ile Arg Gln Xaa Phe Pro Xaa
     319               165                170                175
     321 Leu Thr Thr Arg Arg Leu Gly Thr Arg Gly Xaa Ser Lys Tyr His Tyr
     322             180                185                190
     324 Tyr Gly Ile Xaa Xaa Lys Glu Ser Ser Xaa Tyr Tyr Xaa Xaa Xaa Tyr
     325         195                200                205
     327 Ser Xaa Lys Gly Xaa Xaa Xaa Xaa Ser Xaa Xaa Xaa Xaa Lys Xaa Xaa
     328       210                215                220
     330 Xaa Xaa Xaa Thr Xaa Xaa Tyr Ser Xaa Xaa Ser Lys Xaa Gly Thr Leu
     331 225                230                235                240
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Input Set : **A:\-135-1.APP**
Output Set: **N:\CRF4\07312006\J533593.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the
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to <223> fields of each sequence which presents at least one n or Xaa.

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Input Set : A:\-135-1.APP
Output Set: N:\CRF4\07312006\J533593.raw

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Seq#:5; Xaa Pos. 2,3,5,6,7,9,10,13,14,18,19,20,22,23,25,26,27,28,29,30,31
Seq#:5; Xaa Pos. 32,33
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VERIFICATION SUMMARY   DATE: 07/31/2006
PATENT APPLICATION: **US/10/533,593**   TIME: 14:10:26

Input Set : **A:\-135-1.APP**
Output Set: **N:\CRF4\07312006\J533593.raw**

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L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
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